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Notice of Allowability	Application No.	Applicant(s)	
	10/814,725	PARKER ET AL.	
	Examiner	Art Unit	
	Duc C. Ho	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed 3-30-04.
2. ☒ The allowed claim(s) is/are 1-5, 17-21, and 33-34. Renumbered 1-12, respectively.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>See Continuation Sheet</u> 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>7-18-07</u> 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____. |
|---|--|

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 7-5-07;9-12-06;11-8-04.

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-5, 17-21, 33, and 34 are drawn to gateways between networks, classified in class 370, subclass 401.
 - II. Claims 6-7, and 22-23 are drawn to processing address header for routing, classified in class 370, subclass 392.
 - III. Claims 8-13, and 24-28 are drawn to control of data admission to the network, classified in class 370, subclass 230.
 - IV. Claims 14-16, and 30-32 are drawn to particular switching network arrangement, classified in class 370, subclass 386.

2. The inventions are distinct, each from the other because of the following reasons:

Inventions I, II, III, and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I is concerned with a packet processing system having packet parser functions to be distributed throughout the system; invention II is concerned with a packet processing system with an egress mirroring function is provided to the system; invention III is concerned with a packet processing system in which a multi-dimensional quality of service indicator for a packet is provided, while invention IV is concerned with a cascaded combination of multiple, replicated packet processing system. See MPEP § 806.05(d).

3. Because these invention are distinct for the reason given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purpose as indicated is proper.
4. During a telephone conversation with Viola T. Kungn (P: 650-798-3570) on July-17-2007, a provisional election was made without traverse to prosecute the invention of the group I, claims 1-5, 17-21, and 33-34.

EXAMINER 'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Viola T. Kung on 07-18-07.

The application has been amended as follows:

In the specification:

Amendments to the specification

Please delete the section beginning on page 5 at line 7 entitled "Related Applications," and replace it with the following replacement section:

RELATED APPLICATIONS

The following application are commonly owned by the assignee hereof, are being filed on even data herewith, and are each incorporated by reference herein as though set forth in full:

U.S. Patent Application Serial No.	Title
10/814,552, filed March 30, 2004	PACKET PROCESSING SYSTEM ARCHITECTURE AND METHOD
10/814,556, filed March 30, 2004	PACKET DATA MODIFICATION PROCESSOR
10/814,728, filed March 30, 2004	SYSTEM AND METHOD FOR PACKET PROCESSOR STATUS MONITORING
10/814,545, filed March 30, 2004	METHOD AND SYSTEM FOR INCREMENTALLY UPDATING A CHECKSUM IN A NETWORK DATA PACKET
10/814,729, filed March 30, 2004	SYSTEM AND METHOD FOR EGRESS PACKET MARKING
10/813,731, filed March 30, 2004	SYSTEM AND METHOD FOR ASSEMBLING A DATA PACKET
10/814,727, filed March 30, 2004	PACKET DATA MODIFICATION PROCESSOR COMMAND INSTRUCTION SET
10/814,774, filed March 30, 2004	DATA STRUCTURES FOR SUPPORTING PACKET DATA MODIFICATION OPERATIONS
60/558,039, filed March 30, 2004	RECEIVE-SIDE PACKET PROCESSING SYSTEM

In the claims:

Claims 6-16, and 22-32 are canceled.

Reason for Allowance

6. Regarding claims 1-5, 17-21, and 33-34, the prior art fails to teach or suggest a packet modification system comprising: a second packet parser for parsing a packet derived from the classified packet and providing second data representative thereof; a packet modification engine for modifying some or all of the packet responsive to the second data; a third packet parser for parsing the modified packet and providing third data representative thereof; and a packet post-processor for processing the modified packet responsive to the third data, in combination with other limitations, as specified in the independent claims 1, 17, 33, and 34.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (571) 272-2988.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2616

9. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent Examiner

A handwritten signature in black ink, appearing to read 'Duc Ho', written in a cursive style.

Duc Ho

07-18-07